

Claims

1. A device for applying an adhesive to a projectory spine region of an inner book while conveyed in a transport system comprising:
5 at least one rotating application wheel which picks up adhesive from a reservoir and transfers said adhesion to the inner book by rolling-off; a doctor blade confronting the well an adjustable distance for regulating the application thickness of the adhesive; an actuating device for controlled movement of the doctor blade
10 between an application position and a zero-application position, wherein the actuating device includes at least one contraction hose controllable via compressed air and functioning as a single-acting pull actuator.
- 15 2. Device according to Claim 1, wherein the actuating device includes a spring for urging the doctor blade into one of said positions against which the actuation of the contraction hose operates.
- 20 3. Device according to Claim 2, wherein the contraction hose and spring are arranged such that the contraction hose pulls the doctor blade into the application position when actuated by compressed air.
- 25 4. Device according to Claim 1, wherein the actuating device includes two reciprocally-acting contraction hoses, which the doctor blade alternately to the application and the zero-application positions.
- 30 5. Device according to claim 1, including adjustable stops defining the application and zero-application positions of the doctor blade movement, wherein the stops are configured as dampers.

6. Device according to claim 1, wherein the book spine region has a front and a rear as conveyed and the pressure applied to the contraction hose is controlled by a pilot pneumatic valve as a function of the conveying velocity of the book, for achieving adhesive applications positioned precisely with respect to the front and rear of the book.
7. Device according to claim 1, wherein the pressure of the compressed air controlling the contraction hose is variable, whereby the associated doctor blade is pulled to a position between the zero-application and the application positions commensurate with said pressure.
8. Device according to Claim 7, wherein the spine region has a relief surface and means are provided for applying an adhesive pattern complementary to the relief of the spine region by tracing the relief surface and delivering the tracts to a control unit for the varying the compressed air control to the contraction hose.
9. Device according to claim 1, wherein a separate actuating device having at least one contraction hose, which can be activated separately, is provided for each doctor blade.
10. Device according to claim 1, wherein the device includes a side-gluing mechanism having an adhesive conveyor with associated adhesive scraper with the doctor blade guided therein, is configured to be removable by disconnecting an articulated joint between the contraction hose and the doctor blade.
11. Device according to claim 1, wherein the device includes a side-gluing mechanism and the contraction hose or hoses are arranged vertically beside the reservoir and the pulling of the hoses are transmitted to the doctor blades by reversing levers.

12. Device according to Claim 11, wherein the contraction hose is protected against heat radiation from the reservoir by a cover plate.
- 5 13. Device according to claim 2, wherein the actuating device includes two reciprocally-acting contraction hoses, which the doctor blade alternately to the application and the zero-application positions.
- 10 14. Device according to claim 2, wherein adjustable stops defining the application and zero-application positions of the doctor blade movement, wherein the stops are configured as dampers.
- 15 15. Device according to claim 2, wherein the book spine region has a front and a rear as conveyed and the pressure applied to the contraction hose is controlled by a pilot pneumatic valve as a function of the conveying velocity of the book, for achieving adhesive applications positioned precisely with respect to the front and rear of the book.
- 20 16. Device according to claim 2, wherein the pressure of the compressed air controlling the contraction hose is variable, whereby the associated doctor blade is pulled to a position between the zero-application and the application positions commensurate with said pressure.
- 25 17. Device according to claim 4, wherein adjustable stops defining the application and zero-application positions of the doctor blade movement, wherein the stops are configured as dampers.
- 30 18. Device according to claim 4, wherein the book spine region has a front and a rear as conveyed and the pressure applied to the contraction hose is controlled by a pilot pneumatic valve as a function of the conveying velocity of the book, for achieving

adhesive applications positioned precisely with respect to the front and rear of the book.

19. Device according to claim 4, wherein the pressure of the compressed air controlling the contraction hose is variable, whereby the associated doctor blade is pulled to a position between the zero-application and the application positions commensurate with said pressure.
20. Device according to claim 4, wherein the spine region has a relief surface and means are provided for applying an adhesive pattern complementary to the relief of the spine region by tracing the relief surface and delivering the tracts to a control unit for the varying the compressed air control to the contraction hose.